

# Manganese, pentacarbonylmethyl-

<b>Other names:</b>	Manganese, pentacarbonylmethyl-, (OC-6-21)- Methyl pentacarbonylmanganese Methylmanganese pentacarbonyl Pentacarbonylmethylmanganese CH <sub>3</sub> (CO) <sub>5</sub> Mn
<b>Inchi:</b>	InChI=1S/5CO.CH3.Mn/c5*1-2;/h;;;;;1H3;
<b>InchiKey:</b>	KJJLHDHVFFAISC-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>6</sub> H <sub>3</sub> MnO <sub>5</sub>
<b>SMILES:</b>	[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[CH3].[Mn]
<b>Mol. weight [g/mol]:</b>	210.02
<b>CAS:</b>	13601-24-6

## Physical Properties

Property code	Value	Unit	Source
affp	764.40	kJ/mol	NIST Webbook
basg	735.40	kJ/mol	NIST Webbook
hf	-756.00 ± 6.00	kJ/mol	NIST Webbook
hf	-750.90 ± 4.10	kJ/mol	NIST Webbook
hfs	-811.20 ± 3.70	kJ/mol	NIST Webbook
hfs	-816.00 ± 6.00	kJ/mol	NIST Webbook
hsub	60.30 ± 1.70	kJ/mol	NIST Webbook
ie	8.65	eV	NIST Webbook
ie	8.46	eV	NIST Webbook
ie	8.40	eV	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	60.20	kJ/mol	348.00	NIST Webbook

# Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C13601246&Units=SI>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>ie:</b>	Ionization energy

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